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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-07-09-15** **Date: 08-06-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.
Agency	:	Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/211/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-06-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	07-06-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-07-09-15** **Date: 10-06-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/06/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-07-09-15** **Date: 10-06-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-20

Sample Type /Size : Precast Cover Slab (200mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/06/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	151.02	200.48	2.116	17909	160.9	9.0	8.4	10.4
2	Cover Slab-2	150.98	200.52	2.122	17900	162.3	9.1	8.4	10.5
3	Cover Slab-3	151.00	200.51	2.118	17904	161.5	9.0	8.4	10.5

Note:

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2020-07-09-15** **Date: 10-06-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-06-20

Sample Type /Size : CC Kerb Stone/ 450*200*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 06/06/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	150.01	200.51	3.164	17670	182.1	10.3	10.3	12.9
2	B	150.03	200.49	3.193	17675	185.2	10.5	10.5	13.1
3	C	150.01	200.50	3.115	17670	185.1	10.5	10.5	13.1

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 17/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07,

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/06/2020	17/07/2020	149.28 X 151.55 X 151.88	22623	**8.973**	386.8	17.1	17.5
2	PCC	M15	19/06/2020	17/07/2020	149.38 X 151.89 X 151.07	22689	**8.669**	392.7	17.3	
3	PCC	M15	19/06/2020	17/07/2020	151.43 X 149.43 X 150.00	22629	**8.202**	407.2	18.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 18/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07,

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/06/2020	18/07/2020	149.92 X 151.82 X 150.56	22761	**8.089**	543.1	23.9	23.2
2	Drain Bottom Slab Concrete	M20	20/06/2020	18/07/2020	151.06 X 150.63 X 151.65	22754	**8.912**	502.2	22.1	
3	Drain Bottom Slab Concrete	M20	20/06/2020	18/07/2020	150.98 X 149.71 X 151.60	22604	**8.380**	532.3	23.5	

Note:

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Assistant Executive Engineer
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Bangalore - 560 092

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 18/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07,

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/06/2020	18/07/2020	149.40 X 151.29 X 150.63	22602	**8.089**	523.8	23.2	23.1
2	Drain Bottom Slab Concrete	M20	20/06/2020	18/07/2020	150.40 X 150.04 X 150.34	22566	**8.912**	512.7	22.7	
3	Drain Bottom Slab Concrete	M20	20/06/2020	18/07/2020	151.69 X 150.61 X 149.39	22846	**8.380**	534.4	23.4	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 25/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/06/2020	25/07/2020	149.22 X 149.80 X 150.74	22353	**8.089**	532.9	23.8	23.4
2	Drain Side Wall Concrete	M20	27/06/2020	25/07/2020	149.91 X 149.11 X 150.86	22353	**8.912**	505.4	22.6	
3	Drain Side Wall Concrete	M20	27/06/2020	25/07/2020	151.29 X 150.70 X 150.00	22799	**8.380**	539.8	23.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 25/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/06/2020	25/07/2020	149.84 X 151.21 X 149.61	22657	**8.089**	522.2	23.0	23.1
2	Drain Side Wall Concrete	M20	27/06/2020	25/07/2020	150.90 X 149.03 X 151.39	22490	**8.912**	502.3	22.3	
3	Drain Side Wall Concrete	M20	27/06/2020	25/07/2020	150.04 X 151.59 X 150.85	22745	**8.380**	542.6	23.9	

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-07-09-15** **Date: 10-06-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-06-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-06-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-07-09-15** **Date: 10-06-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Ashwini N.D.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 26/06/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/06/2020	26/06/2020	149.19 X 149.49 X 149.09	22302	**8.820**	277.4	12.4	12.5
2	PCC	M15	19/06/2020	26/06/2020	149.52 X 150.54 X 151.93	22509	**8.594**	284.7	12.6	
3	PCC	M15	19/06/2020	26/06/2020	151.28 X 149.55 X 150.65	22625	**8.450**	278.0	12.3	

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AE(Ujj)

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 27/06/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	149.65 X 149.34 X 151.84	22349	**8.161**	404.0	18.1	18.7
2	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	150.20 X 150.04 X 150.36	22536	**8.723**	427.6	19.0	
3	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	150.85 X 150.90 X 151.53	22763	**8.880**	430.6	18.9	

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Ashwini N.D.
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 27/06/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	150.73 X 150.23 X 150.33	22644	**8.161**	419.3	18.5	18.6
2	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	150.07 X 150.58 X 150.68	22597	**8.723**	421.5	18.7	
3	Drain Bottom Slab Concrete	M20	20/06/2020	27/06/2020	150.22 X 151.87 X 149.79	22814	**8.880**	424.9	18.6	

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AE(HQ)

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 04/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/06/2020	04/07/2020	151.44 X 151.41 X 149.05	22931	**8.161**	416.6	18.2	18.2
2	Drain Side Wall Concrete	M20	27/06/2020	04/07/2020	151.99 X 151.09 X 150.84	22965	**8.723**	422.6	18.4	
3	Drain Side Wall Concrete	M20	27/06/2020	04/07/2020	149.28 X 149.15 X 151.06	22266	**8.880**	402.2	18.1	

Note:

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AE(W2)

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-07-09-15** **Date: 04/07/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

Agency : Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.

Customer's Reference : BBMP/EE/BTP/WO/211/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-06-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/06/2020	04/07/2020	151.28 X 151.19 X 150.42	22872	**8.161**	422.1	18.5	18.5
2	Drain Side Wall Concrete	M20	27/06/2020	04/07/2020	150.69 X 149.35 X 150.65	22505	**8.723**	414.9	18.4	
3	Drain Side Wall Concrete	M20	27/06/2020	04/07/2020	150.10 X 149.13 X 150.32	22384	**8.880**	418.0	18.7	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

QC ABSTRACT

NAME OF WORK: Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	5.04	2	2
10	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	54.81	10	10

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-07-09-15** **Date: 11-06-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.
Agency	:	Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/211/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-06-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-07-09-15** **Date: 07-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.
Agency	:	Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/211/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-06-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-07-09-15** **Date: 11-06-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.
Agency	:	Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.
Customer's Reference	:	BBMP/EE/BTP/WO/211/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-06-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-06-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-07-09-15** **Date: 11-06-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.45	_
6	Water Absorption(%)	0.22	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-07-09-15** **Date: 10-06-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Vayunandhan Layout Mainroad(LHS) in Kempapura in Ward No.07, Byatarayanapura.
Agency	:	Sri. P Vijaya Babu (NANDI ENTERPRISES), #1504, 4th C Main, 2nd Stage, West of Chord Road, Bangalore-560086.
Customer Reference	:	BBMP/EE/BTP/WO/211/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-06-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-07-09-15** **Date: 10-06-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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AE(WS)

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